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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/435,256	11/05/1999	THYAGARAJAN BALASUBRAMANIAN	D/99729Q	4969
7590 10/07/2003			EXAMINER	
JOHN E BECK			RAHIMI, IRAJ A	
XEROX CORPORATION XEROX SQUARE 20A			ART UNIT	PAPER NUMBER
ROCHESTER,			2622	
			DATE MAILED: 10/07/2003	<i>b</i>

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/435,256	BALASUBRAMAN	BALASUBRAMANIAN ET AL.				
Office Action Summary	Examiner	Art Unit					
	(Iraj) Alan Rahimi	2622					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, or If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by second and patent term adjustment. See 37 CFR 1.704(b). Status	ON. FR 1.136(a). In no event, however, m. n. a reply within the statutory minimum or eriod will apply and will expire SIX (6) statute, cause the application to becon	ay a reply be timely filed of thirty (30) days will be considered time! MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133).	y. ommunication.				
1) Responsive to communication(s) filed on	23 July 2003 .						
2a)☐ This action is FINAL . 2b)☒	This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4) Claim(s) 1-7 is/are pending in the applicat	tion.						
4a) Of the above claim(s) is/are with							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1,2 and 5</u> is/are rejected.							
7) Claim(s) $3,4,6$ and 7 is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>08 November 1999</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
	reign phonty under 35 0.5	.C. 9 119(a)-(u) 01 (1).					
a) All b) Some * c) None of:	nosts have been received						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)	· ·						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948 3) Information Disclosure Statement(s) (PTO-1449) Paper No	3) 5) 🔲 Notic	view Summary (PTO-413) Paper No ee of Informal Patent Application (PT r:					

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DETAILED ACTION

Response to Amendment

1. In papers filed on July 23, 2003 applicant replaced the formula in the specification and overcame the 112 rejection.

Response to Arguments

2. Applicant's arguments with respect to claims 1, 2 and 5 have been considered but are most in view of the new ground(s) of rejection. This action is Non-Final.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 2 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Itoh in view of Yabe (US patent 5,907,415).

Regarding claim 1, Itoh discloses a method of selecting a filter for control of a gamut mapping correction process, including:

determining a filter selection metric in accordance with measured local image activity (column 4, lines 10-23. 8x8 matrix is considered local image area where filtering criteria is based on.);

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changing filter parameters as a function of the determined filter selection metric (column 3, lines 65-67; column 4, lines 46-67 and column 6, lines 1-16).

Although Itoh discloses filtering out the noise due generated by coding of the image data, he does not specifically disclose coding the image data for purpose of gamut mapping. Yabe discloses an image processor that includes a gamut mapping device. Yabe discloses in column 3, lines 32-55 that masking and filtering are applied based on the a pixel representing character portion and image portion. Itoh and Bames are analogous art because they are from the same field of endeavor that is use of filters in image processing. Therefore, it would have been obvious to a person skilled in the art, at the time of invention to use Yabe's invention with Itoh to obtain high-quality image reproduction.

Regarding claim 2, Itoh discloses a method as described in claim 1, wherein said local image activity metric varies between low activity, corresponding to flat areas within an image, and high activity, corresponding to strong edge areas with an image (column 5, lines 64-67 and column6, lines 1-16. Homogeneous regions are considered low activity areas and heterogeneous regions are considered high activity area.

Regarding claim 5, Itoh discloses a method as derived in claim 1 wherein said varied filter parameter is filter size in terms of pixels covered in a single operation thereof (column 3, lines 31-36).

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Allowable Subject Matter

5. Claims 3, 4, 6 and 7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art or the prior art of record did not disclose the limitations of these claims.

Other Cited Prior Art

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Silverbrook et al. US patent (6,381,361) discloses gamut mapping and using a brush stoke filter to enhance the effect.

Nakauchi et al. US patent (6,198,843) discloses color gamut mapping.

Tsuji (US patent 6,259,811) discloses image processing apparatus.

Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Iraj) Alan Rahimi whose telephone number is 703-306-3473. The examiner can normally be reached on Mon.-Fri. 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L Coles can be reached on 703-305-4712. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3800.

September 29, 2003

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